

SCREENING SITE INSPECTION REPORT

FOR

ROADWAY TRUCKING TERMINAL

CHICAGO HEIGHTS, ILLINOIS

U.S. EPA ID: ILD980677843

SS ID: NONE

TDD: F05-8808-011

PAN: FIL0661SB

US EPA RECORDS CENTER REGION 5



399028

MAY 21, 1991



ecology and environment, inc.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

230 SOUTH DEARBORN ST.

CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:
5HR-11-SSI

Thomas Crause, Manager
Hazardous Substances Planning Unit
Illinois Environmental Protection Agency
2200 Churchill Road
P.O. Box 19276
Springfield, Illinois 62794-9276

Site Name: Roadway Trucking
Location: Chicago Hts, IL Terminal

U.S. EPA ID#: IL0980677843

Date: 3 June 1991

Dear Mr. Crause:

Attached is a copy of the screening site inspection report (SSIR) which has been prepared for the site listed above. This document is considered to be final and any changes and modifications based on comments made by your agency and the U.S. Environmental Protection Agency (U.S. EPA) during the 30 calendar day comment period have already been incorporated.

Because this is considered to be the final form of this document, this version of the SSIR may be distributed outside of your agency without prior notification and approval of U.S. EPA.

Please remember that the revised estimate of the Hazard Ranking System (HRS) score, which has already been furnished to your agency by FIT is still considered to be predecisional. Therefore, it should not be released. If you have any questions concerning the release of this information, please contact Ms. Jeanne Griffin, of my staff, at (312) 886-3007.

As was previously agreed upon, one set of original photographs for this SSIR has already been sent to your agency enclosed in the draft version of this SSIR. It is your agencies responsibility to see that these photographs are mounted in the photo logs enclosed in the final version of this SSIR. At this point the final version of the SSIR supersedes the draft version and the draft version of this SSIR should be removed from your agency files to ensure that the confidential draft version of this SSIR is not inadvertently released by your staff.

If you have any comments or questions, please contact Bill Messenger at (312) 353-1057.

Sincerely yours,

Thomas F. Geishecker
Technical Support Section
Enclosure
cc: Bill Messenger

SIGNATURE PAGE
FOR
SCREENING SITE INSPECTION REPORT
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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Roadway Trucking Terminal (Roadway) site under contract number 68-01-7347.

The site was initially discovered in June 1980 when Ed Myers, Fire Inspector, Sauk Village Fire Department, inspected the site. The reason for the inspection is not known.

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Gary Reside of the Illinois Environmental Protection Agency (IEPA) and is dated December 10, 1987 (U.S. EPA 1987).

FIT prepared an SSI work plan for the Roadway site under technical directive document (TDD) F05-8808-011, issued on August 11, 1988. The SSI work plan was approved by U.S. EPA on April 26, 1990. The SSI of the Roadway site was conducted on July 12, 1990, under amended TDD F05-8808-011, issued on April 30, 1990.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of seven soil/sediment samples and two monitoring well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for

the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

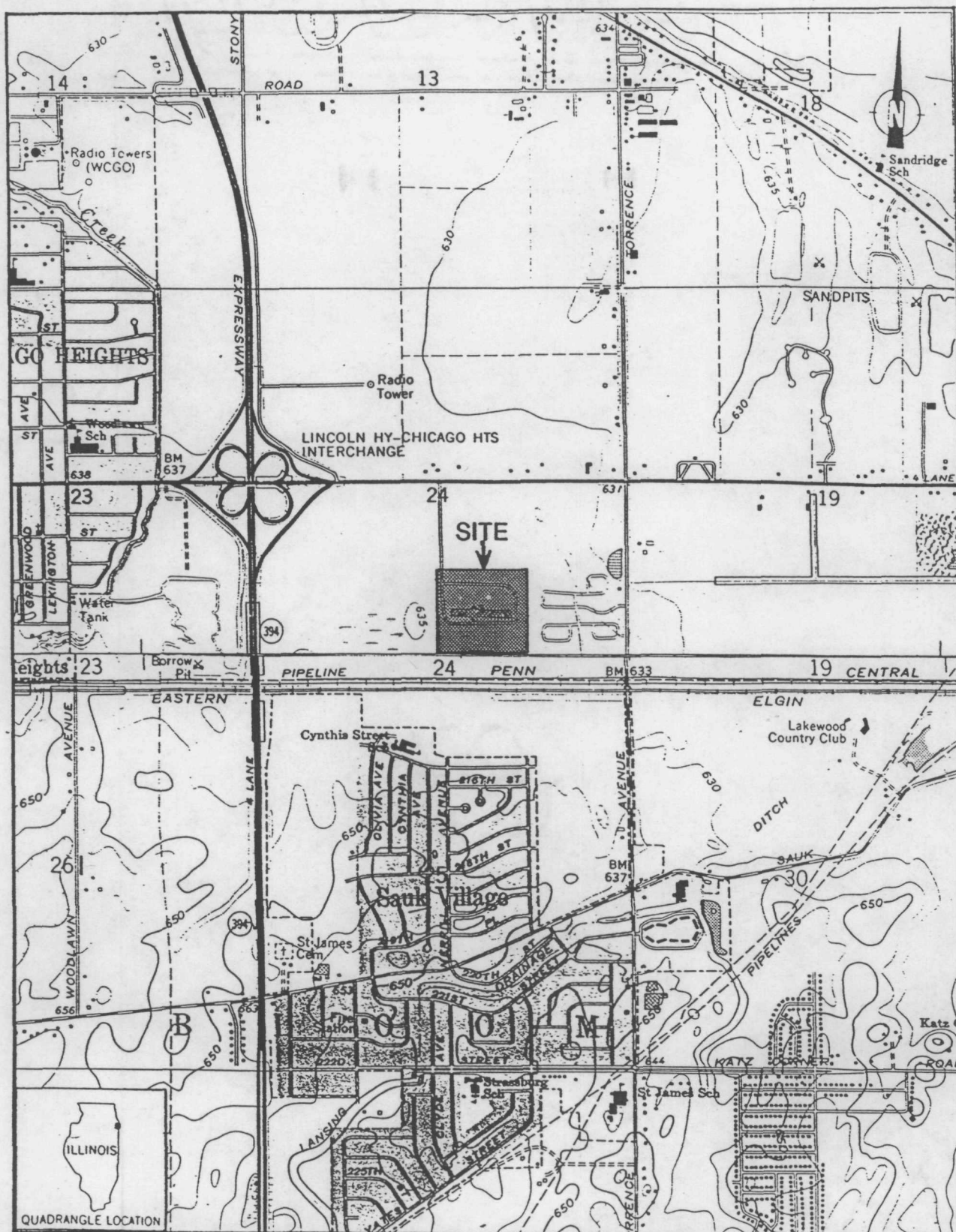
The Roadway site occupies 40 acres of land southeast of the Lincoln Highway-Illinois Route 394 interchange, at 2000 Lincoln Highway, in Sauk Village, Cook County, Illinois (SW1/4SE1/4 sec. 24, T.35N., R.14E.) (see Figure 2-1 for site location). The site's business address is listed in Chicago Heights, but the site is in the municipality of Sauk Village. The center of Sauk Village is approximately 1 mile south of the site.

The site is an active freight transfer and maintenance facility for semitrailers. Freight of all types, except Type A and B explosives, hazardous wastes, and bulk liquid, are handled at the Roadway site. The materials used on-site are diesel fuel, motor oils, antifreeze, windshield washer fluid, a part-cleaning solution, and gasoline (Wilk, Fagan, and Foley 1990).

A 4-mile radius map of the Roadway site is provided in Appendix A.

2.3 SITE HISTORY

Roadway Services, Inc. (RSI), has been the sole owner of the site since a trucking terminal was built on-site in 1970. RSI is the holding company for Roadway Express, Inc., which has been the sole operator of



SOURCE: USGS, Calumet City, IL-IN Quadrangle, 7.5 Minute Series, 1968, photorevised 1980; Dyer, IL-IN Quadrangle, 7.5 Minute Series, 1962, photorevised 1973.

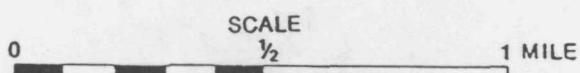


FIGURE 2-1 SITE LOCATION

the site. Until 1970, the site was used as farmland (Wilk, Fagan, and Foley 1990; Wilk 1991).

The northern half of the site was developed as a trucking terminal in 1970, and has been expanded on several occasions. Development of the southern half of the site occurred in the 1980s. The most recent expansion was completed in summer 1990, after the SSI was conducted (Wilk, Fagan, and Foley 1990; Wilk 1991).

Liquid freight that is handled at the terminal is packaged in 55-gallon drums or smaller containers. No liquid freight is transferred between containers at the site. The only tank trucks that come to the site deliver diesel fuel or gasoline (Wilk, Fagan, and Foley 1990).

Diesel fuel is stored on-site in five 20,000-gallon underground storage tanks (USTs). Gasoline, motor oil, and antifreeze are stored in separate 10,000-gallon USTs; waste oil is stored in a 2,000-gallon UST. Waste antifreeze is stored in a plastic, 200-gallon, aboveground storage tank. Lubricating and hydraulic oil, windshield fluid, and automatic transmission fluid are stored on-site in 55-gallon drums (Wilk, Fagan, and Foley 1990).

The diesel fuel USTs are refilled daily. The gasoline UST is refilled every two years. Approximately 3,200 gallons of waste oil and 500 gallons of waste antifreeze are generated yearly. There is no regular schedule for their disposal, but it is done on an as-needed basis by Safety-Kleen Corporation of Elgin, Illinois (Wilk, Fagan, and Foley 1990). Small amounts of diesel fuel are often spilled during the refueling of individual trucks and the refilling of the five diesel fuel USTs. No waste oil or antifreeze is spilled when it is picked up for disposal (Wilk, Fagan, and Foley 1990). Fuel levels in the USTs are monitored electronically (Fagan 1989).

The site representatives estimated that four or five accidents in which liquid chemical freight is spilled occur each year. A typical spill consists of a 55-gallon drum being punctured by a forklift. The liquid then spills from the loading dock, onto an asphalt lot, and eventually flows into a drainage ditch and discharges into an on-site pond (Wilk, Fagan, and Foley 1990).

A spill was reported to U.S. EPA in June 1980. Two containers (file information suggests, but does not state, that they were

pressurized gas cylinders) of Terra-0-Cide insecticide/fumigant fell over in a semitrailer, either during transport or during loading/unloading at the terminal. Inspectors from the U.S. EPA Hazardous Materials Enforcement and Response Program (HMERP) did not observe any evidence of spilled or leaked chemicals on the pavement; however, a strong odor of Terra-0-Cide was noticed in the semitrailer (Reed 1980). Evidence of spilled diesel fuel was also observed during the June 1980 inspection by HMERP. Myers, Sauk Village Fire Inspector, reported similar evidence of diesel fuel spills and evidence of dumping of chemicals in a retention pond on-site (U.S. EPA 1980; Kaplan 1980).

A retention pond occupied the southeast corner of the site, but it was replaced by the current retention pond that occupies the western part of the site. In order to expand the terminal in summer 1989, the former retention pond was filled with dirt and covered with asphalt. The filling of the pond was not a state-mandated action (Wilk, Fagan, and Foley 1990; Wilk 1991).

In June 1989, approximately 50 cubic yards of soil was removed during site remediation after an oil UST ruptured (Wilk, Fagan and Foley 1990). The method of treatment and disposal of the soil is not known. The contractor who performed the work is not known either.

On November 27, 1989, John Wiszowaty, Code Enforcement Officer, Sauk Village, observed a black, slimy substance in the retention pond. Wiszowaty had not observed this substance five days earlier, on November 22, 1989, during a previous inspection (Wiszowaty 1989, 1989a). Even though the Sauk Village Police Department had not received any spill reports from Roadway Express, Wiszowaty believed that the site was the source of the black substance because the site's drainage ditches empty into the retention pond (Wiszowaty et al. 1989)

On November 28, 1989, Wiszowaty was accompanied by Edward Osowski, IEPA; Joseph Dieter, Illinois State Police; Edward Niefert, Sauk Village Director of Public Works; Sauk Village Assistant Fire Chief Stoffregen; and Roadway Express representatives during an inspection of the retention pond. Osowski recommended that Roadway Express replace oil booms in the ditches because they were saturated with waste, perform pressure tests on USTs and underground fuel pipes, and have soil samples from the retention pond analyzed (Wiszowaty 1989). Roadway Express followed the

recommendations concerning the oil booms and reported that its fuel monitoring equipment had shown no evidence of fuel leaks (Fagan 1989).

During a January 1990 inspection, Wiszowaty observed that the oil booms were saturated with oil and noted in his report that the booms were overdue for replacement (Wiszowaty 1990). The next known replacement of the oil booms was on March 26, 1990 (Vijayvargiya 1990).

In early May 1990, Roadway Express submitted to Sauk Village officials the analytical results for one water sample and one soil sample. The samples were required by Sauk Village as a part of its investigation at the site. The samples had been collected from the north end of the retention pond and analyzed for the generic parameters of fats, oil, and grease. No analyses for specific compounds were conducted. At the same time, Roadway Express stated its intention to excavate from the bottom of the retention pond soil that was believed to be contaminated (Wilk 1990).

Sauk Village officials believed that the excavation work was conducted in fall 1990 (Wiszowaty 1990a). However, Wilk reported that no soil was removed from the site in fall 1990, but that improvements to the oil skimmer system were made. The skimmer separates diesel fuel and other water-insoluble liquids from water that has drained into the skimmer from on-site drainage ditches. The water drains from the skimmer into the retention pond. The separated oil drains into a UST for waste, before disposal. The skimmer is located near fuel pumps that are north of the on-site maintenance garage (Wilk 1991).

No federal, state, or local enforcement actions are known to have been taken at the site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Roadway site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exception. Five monitoring well samples were added to the sampling plan after site representatives informed FIT that monitoring wells existed on-site (Wilk 1990a). Only two monitoring well samples were collected, however, because three of the monitoring wells were dry.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Roadway site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Charles G. Hall, FIT team leader, conducted an interview with Grant B. Wilk, Environmental Geologist, RSI, on July 12, 1990, at 8:00 p.m. at the Roadway site. Guy T. Foley, District Maintenance Manager, and James J. Fagan, District Safety Manager, both of Roadway Express, also attended the interview. Samuel Borries of FIT was also present at the interview. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Roadway site and surrounding area in

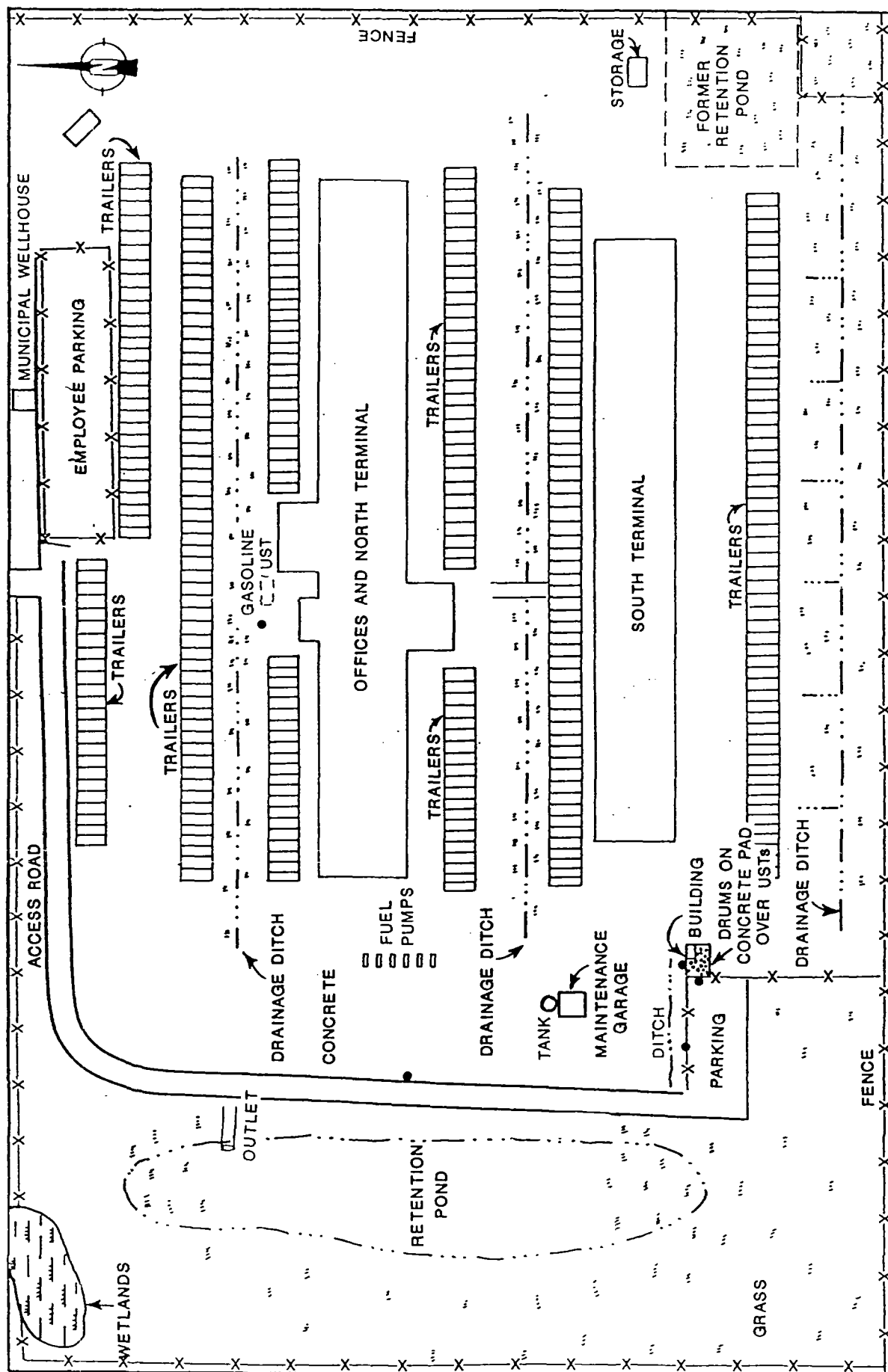
accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 10:20 a.m., and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by Wilk during the reconnaissance inspection.

Reconnaissance Inspection Observations. The site is bordered by Pennsylvania Central Railroad tracks along its south side. A mobile home park is adjacent to the east side of the site. A cornfield is adjacent to the northeast site boundary. A trucking terminal, not owned by RSI, is adjacent to the northwest side of the site. A man-made wetland is adjacent to the west side of the site. Illinois Route 394 is approximately 1/4 mile west of the site. No other industries are known to be located within 1 mile of the site.

The site consists of five buildings and parking spaces for approximately 450 semitrailers (see Figure 3-1 for site features). Two of the buildings are the freight terminal buildings, in which freight is transferred between semitrailers. One is located in the north portion of the site and one in the south portion. The north terminal is approximately 900 feet long (east and west) and 200 feet wide (north and south). The business offices are located in the center of this terminal. The south terminal is approximately 700 feet long (east and west) and 200 feet wide (north and south).

The facility's truck maintenance garage is located near the southwest corner of the site. The waste antifreeze storage tank is on the north side of the garage. Employee parking lots are in or near the southwest and northeast corners of the site. A storage shed is located near the southeast corner of the site.

Five 20,000-gallon USTs for diesel fuel are located adjacent to the northeast corner of the southwest parking lot. They occupy an area that is roughly 15 feet wide (east to west) and 30 feet long (north to south). A small, cement block building that houses electrical equipment occupies the northeast corner of this area. FIT observed 34, 55-gallon drums stored on the south side of the concrete block building. Of these drums, 17 were stored on an 18-drum storage rack on the south side of



SCALE
0 100 200 300 400 500 FEET

LEGEND
● MONITORING WELL

FIGURE 3-1 SITE FEATURES

the concrete block building. The remaining 17 drums were standing on a concrete pad south of the concrete block building. This concrete pad does not have a concrete berm around it to catch any materials that might be spilled. The drums appeared to be in very good condition. Sixteen of the drums contained lubricating and hydraulic oil, 2 contained antifreeze/coolant, 3 contained windshield washer fluid, and 8 contained automatic transmission fluid. The contents of the other 5 drums were not identified.

Several drainage ditches are located on-site to control runoff rainwater. The three longest ditches are located north of the north terminal (the north ditch), between the north and south terminals (the middle ditch), and along the southern border of the site (the south ditch). Each of these ditches are approximately 900 feet long and 5 feet wide.

The sides of the north ditch were lined with stones. The ditch had no water in it, but the sandy soil in the bottom was very moist from recent rainstorms. The sides of the middle ditch were vegetated with grass. FIT observed green standing water in the ditch. The site representatives explained that the water was colored green because of an ink spill that occurred in mid June 1990 (Wilk, Fagan, and Foley 1990).

The south ditch was vegetated with grass. FIT observed some standing water in the ditch. A fourth ditch is located north of the southwest parking lot. The soil in the bottom of the ditch was moist from recent rainstorms. The sides of the ditch were vegetated with grass, but the bottom of the ditch was not vegetated.

The north and middle ditches drain into the oil skimmer system. The oil skimmer system is underground near a series of fuel pumps in the western section of the site (Wilk 1991). Underground pipes connect the north and middle ditches and the oil skimmer system. A single underground pipe serves as the outlet from the skimmer to the retention pond in the western portion of the site. The south ditch drains into the retention pond. Water drains from the retention pond through a drainage grate into a small wetland area north of it. From there, the water drains into a man-made wetland that covers roughly 20 to 30 acres. This wetland replaced one that was displaced by the construction of a trucking terminal north of the site (Wilk, Fagan, Foley 1990). When the

wetland overflows, water is pumped out of the wetland and into the Deer Creek wetlands on the west side of Illinois Route 394 (Wisnowaty 1990).

Oil-absorbent booms are positioned in the north ditch approximately 100 feet apart. Another oil boom is positioned across the outlet to the retention pond. The oil booms are approximately 8 feet long and approximately 6 inches in diameter. FIT observed that none of the oil booms were stained with a noticeable amount of oil, diesel fuel, or other observable materials.

The site is surrounded by an 8-foot high cyclone fence. There is a gate in the center of the north side of the fence. There is no guard to control entry to the site. Approximately 1,200 workers are employed at the site.

There are five monitoring wells on-site. Four are located in the western portion of the site, east of the retention pond. The other well is near the midpoint of the north ditch, near a gasoline UST. The former retention pond was located in the southeast corner of the site. A Sauk Village municipal well house is located off-site along the northern site boundary, just east of the entrance gate.

FIT photographs from the SSI of the Roadway site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On July 12, 1990, FIT collected seven soil/sediment samples and two monitoring well samples. FIT offered the representatives portions of the samples collected on-site. The representatives accepted portions of the soil/sediment samples, but they did not accept portions of the monitoring well samples.

Soil/Sediment Sampling Procedures. Soil sample S1 was a composite sample that was collected from two points in the ditch north of the southwest parking lot (see Figure 3-2 for soil/sediment sampling

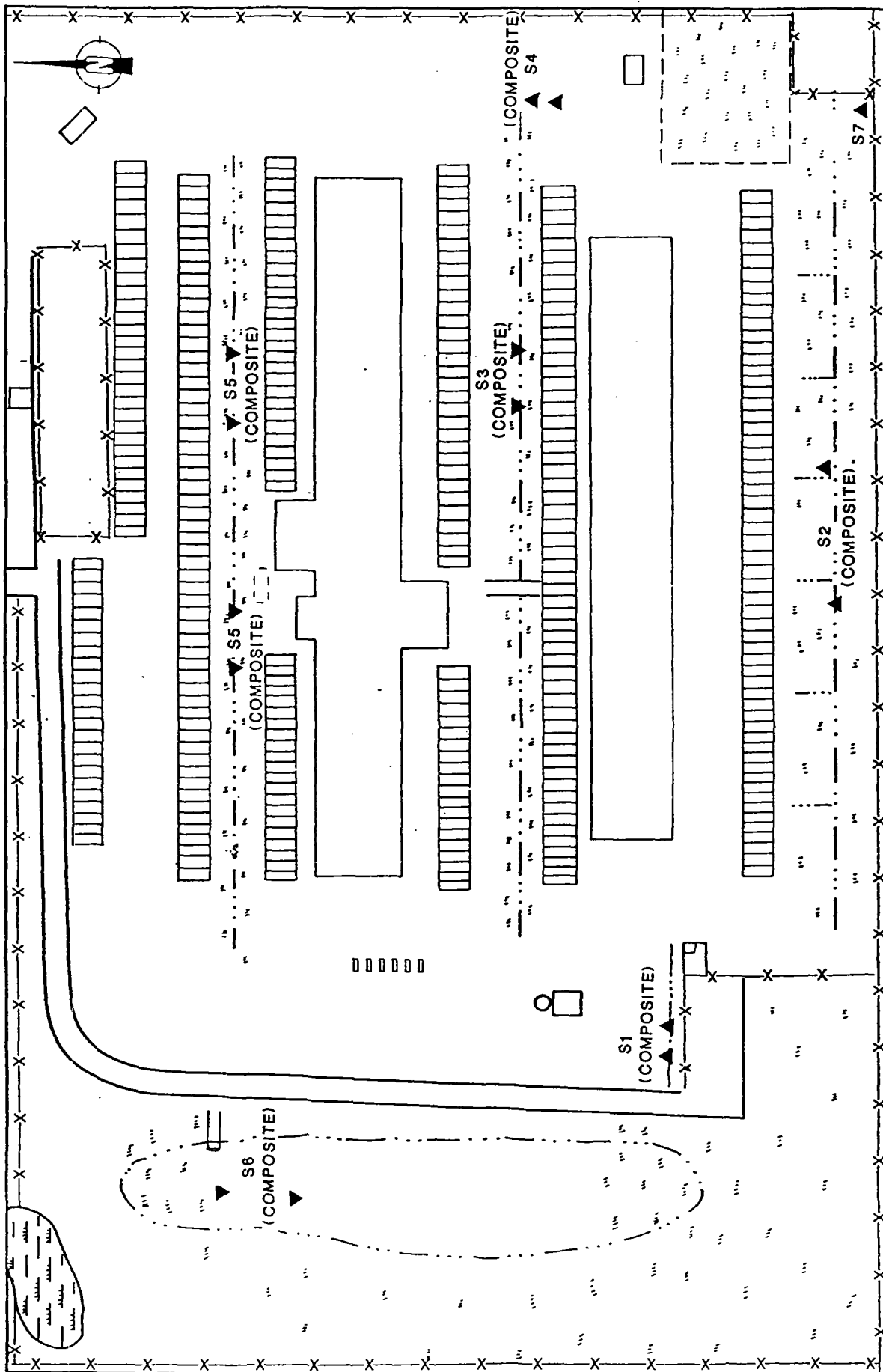


FIGURE 3-2 SOIL/SEDIMENT SAMPLING LOCATIONS

locations). Dark brown and black, discolored soil was observed in this area.

Soil sample S2 was a composite sample that was collected from two points near the midpoint of the south ditch. Dark brown and black, discolored soil was observed in this area.

Sediment sample S3 was a composite sample collected from two points in the eastern half of the middle ditch. The soil and water were discolored by green ink that had been spilled in the ditch one month before the SSI (Wiszowaty 1990b).

Soil sample S4 was a composite sample collected from two points near the eastern end of the middle ditch. Some of the surface runoff from the southeast corner of the site would channel through this area.

Sediment sample S5 was a composite sample collected from four points in the north ditch. Thin layers of liquids were observed on top of the small pools of water in the ditch.

Sediment sample S6 was a composite sample collected from two points in the bottom of the retention pond. One point was approximately 5 feet south of the outlet drain; the second point was approximately 100 feet south of the outlet drain. Black, discolored soil was observed in the bottom of the mostly empty retention pond. The water in the pond was approximately 2 inches deep in the northern end of the pond near the outlet drain.

Soil sample S7 was a grab sample that was collected near the southeast corner of the site as a potential background soil sample. The soil and vegetation in this area appeared to be undisturbed.

All soil/sediment samples collected during the SSI of the Roadway site were collected as surface samples at depths between 0 and 6 inches. A trowel, bowl, and spoon were used to collect all of the samples. Sample portions for volatile organic analysis were collected first (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples. The procedures included the scrubbing of all equipment (e.g., trowels, spoons, and bowls) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample

(E & E 1987). All soil/sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil/sediment samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

Monitoring Well Sampling Procedures. Monitoring wells MW1 and MW2 were sampled during the SSI. Wells MW4 and MW5 contained no water and could not be sampled. Using a steel measuring tape, FIT determined that only approximately 2 inches of liquid was in well MW3. The liquid that was removed from the well with a bailer had the appearance and odor of diesel fuel. Several large, cream-colored droplets were also present in the liquid.

Monitoring wells MW1, MW3, and MW4 are located in the southwest corner of the site, near the parking lot (see Figure 3-3 for monitoring well locations). Well MW2 is located approximately 400 feet northwest of those wells. Well MW5 is located near the midpoint of the north ditch (see Table 3-1 for monitoring well data).

In accordance with U.S. EPA quality assurance/quality control requirements, a duplicate monitoring well sample and a field blank sample were collected. The duplicate sample was collected at location MW2. The field blank sample was prepared from distilled water.

All monitoring wells were purged of three to five volumes of standing water prior to the collection of each sample. All monitoring well samples were collected with stainless steel bailers that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987).

As directed by U.S. EPA, all monitoring well samples were analyzed using the U.S. EPA CLP.

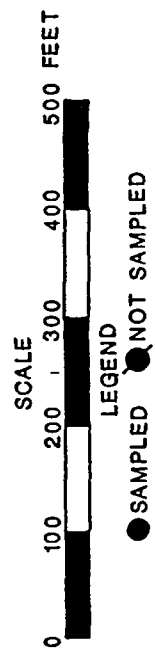
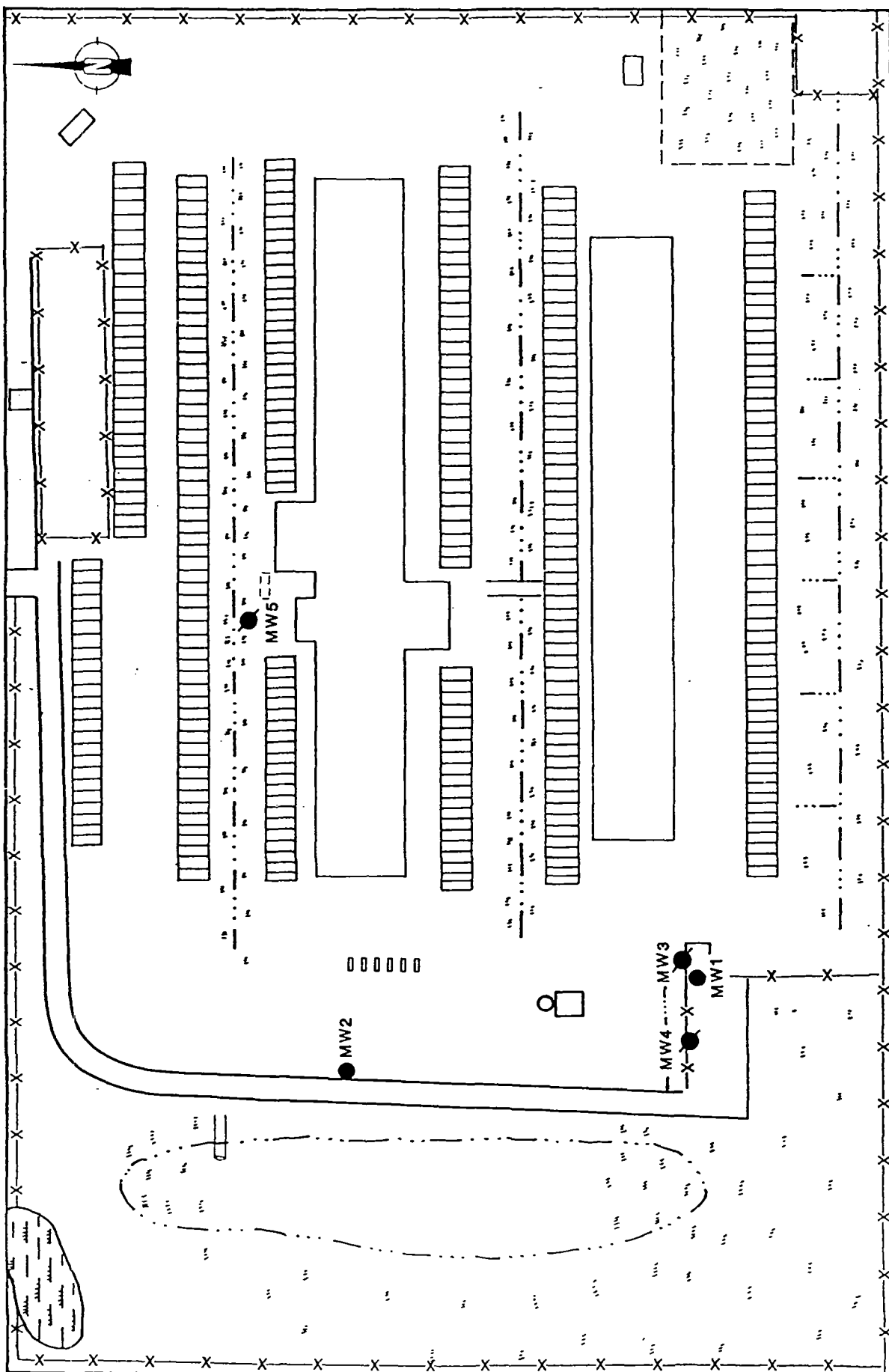


FIGURE 3-3 MONITORING WELL LOCATIONS

Table 3-1

MONITORING WELL DATA

Well	Well Depth (feet)	Depth to Water (feet)
MW1	14.90	12.92
MW2 (and Duplicate)	24.70	22.61
MW3	15.20	15.0
MW4	14.51	dry
MW5	14.87	dry

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil/sediment and monitoring well samples for TCL compounds and TAL analytes. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanides. Complete chemical analysis results of FIT-collected soil/sediment and monitoring well samples are provided in Tables 4-1 and 4-2. In addition, significant tentatively identified compounds (TICs) detected in the analysis of FIT-collected samples are also provided in Tables 4-1 and 4-2.

Quantitation/detection limits used in the analysis of soil/sediment and monitoring well samples are provided in Appendix D.

The analytical data for the chemical analysis of soil/sediment and monitoring well samples collected for this SSI have been reviewed by U.S. EPA for compliance with terms of CLP, and the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for validity and usability. Any additions, deletions, or changes to the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL/SEDIMENT SAMPLES

Sample Collection Information and Parameters		Sample Number						
	S1	S2	S3	S4	S5	S6	S7	
Date	7/12/90	7/12/90	7/12/90	7/12/90	7/12/90	7/12/90	7/12/90	
Time	1253	1330	1415	1435	1450	1430	1330	
CLP Organic Traffic Report Number	ELD37	ELD38	ELD39	ELD40	ELD41	ELD42	ELD43	
CLP Inorganic Traffic Report Number	MEKG37	MEKG38	MEKG39	MEKG40	MEKG41	MEKG42	MEKG43	
Compound Detected								
(values in $\mu\text{g}/\text{kg}$)								
Volatile Organics								
benzene	--	--	--	--	--	2J	--	
toluene	--	--	--	--	--	2J	--	
chlorobenzene	--	--	--	2J	--	--	--	
Semivolatile Organics								
benzoic acid	160J	100J	--	--	--	300J	--	
naphthalene	--	--	--	--	--	130J	--	
2-methylnaphthalene	--	--	--	--	--	170J	--	
acenaphthylene	--	--	--	--	--	120J	--	
acenaphthene	--	--	--	--	--	110J	--	
dibenzofuran	--	--	--	--	--	150J	--	
fluorene	--	--	--	--	--	140J	--	
phenanthrene	160J	61J	70J	--	370J	1,100	--	
anthracene	--	--	--	--	86J	300J	--	
di-n-butylphthalate	79J	130J	110J	88J	120J	220J	82J	
fluoranthene	340J	140J	140J	--	1,100J	2,600	--	
pyrene	250J	140J	140J	--	940J	5,600	--	
butylbenzylphthalate	--	--	--	--	--	280J	--	
benzo[a]anthracene	180J	83J	85J	--	630J	2,400	--	
chrysene	240J	110J	96J	--	560J	2,700	--	
bis(2-ethylhexyl)phthalate	370J	160J	460J	79J	1,600	9,500	61J	
di-n-octylphthalate	--	--	--	--	110J	400J	--	

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number						
	S1	S2	S3	S4	S5	S6	S7
benzo[b]fluoranthene	650X	290JX	210JX	--	1,800X	12,000X	--
benzo[k]fluoranthene	650XJ	290JX	280JX	--	1,800XJ	12,000XJ	--
benzo[a]pyrene	240J	100J	84J	--	650J	4,300	--
indeno[1,2,3-cd]pyrene	170J	76J	70J	--	440J	3,000	--
dibenzof[a,h]anthracene	55J	--	--	--	140J	850J	--
benzo[g,h,i]perylene	210J	91J	78J	--	480J	3,500	--
Pesticides/PCBs							
Dieldrin	87J	36J	26J	45J	--	35J	--
TICs†							
heptadecane, 2,6,10,15-tetra-	930J	--	--	--	--	--	--
hexacosane	--	--	--	--	--	5,600J	--
(630-01-3)							
Analyte Detected							
(values in mg/kg)							
aluminum	11,200	8,100	11,000	12,500	4,600	8,350	16,900
arsenic	4.9	10.2	4	3.6	4.3	4.7	3.7
barium	97.1	56.9	117	96.9	57	156	105
beryllium	0.78B	0.7B	0.96B	0.77B	0.44B	0.78B	0.87B
cadmium	--	--	--	--	2.5J	7.8	--
calcium	14,100	24,600	16,200	5,330	67,800	26,800	3,990
chromium	20.9	15.2	18.9	19	17.8	41.9	23.8
cobalt	9.2B	8.4B	34.5	7.3B	5.7B	7.9B	10.3B
copper	26.1	21.7	22.4	17.6	31	86.3	20.8
iron	17,400	17,700	18,500	17,300	10,700	15,900	20,400
lead	43	25.3	27.5	19.9	117	121	30.9
magnesium	8,510	14,100	8,150	4,060	34,600	14,900	4,360
manganese	391N*J	266N*J	1,070N*J	224N*J	322N*J	211N*J	250N*J
mercury	0.2	--	--	0.15	0.18	0.2	0.75
nickel	23	20.5	28.2	18.1	11.9	20.6	20.9
potassium	1,520	1,050B	1,050B	1,130B	695B	1,270B	1,930

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number						
	S1	S2	S3	S4	S5	S6	S7
selenium	--	--	--	--	--	2N+J	0.48BNWJ
sodium	901B	2,240	1,400	221B	1,600	2,840	109BJ
vanadium	23.5	18.7	24.5	24.8	13.4	20.5	28.4
zinc	148NJ	74.2NJ	87.2NJ	63.3NJ	267NJ	571NJ	71.2NJ
cyanide	--	--	--	--	--	18.5	--

-- Not detected.

+ TIC Chemical Abstracts Service (CAS) numbers, if available, are provided in parentheses.

Table 4 1 (Cont.)

COMPOUND QUALIFIERS		DEFINITION	INTERPRETATION
J		Indicates an estimated value.	Compound value may be semiquantitative.
X		Coelution of isomers.	
ANALYTE QUALIFIERS		DEFINITION	INTERPRETATION
N		Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative.
*		Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
+		Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
B		Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W		Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED MONITORING WELL SAMPLES

Sample Collection Information and Parameters	MW1	MW2	Sample Number		Blank
			Duplicate		
Date	7/12/90	7/12/90	7/12/90	7/12/90	7/12/90
Time	1555	1500	1500	1400	1400
CLP Organic Traffic Report Number	EEA62	EEA63	EEA64	EEA98	EEA98
CLP Inorganic Traffic Report Number	MEKP54	MEKP55	MEKP56	MEKQ58	MEKQ58
Temperature (°C)	19	16	16	25	25
Specific Conductivity (μmhos/cm)	2,700	550	550	1	1
pH	7.10	7.15	7.15	6.53	6.53
Compound Detected					
(values in μg/L)					
Volatile Organics					
methylen chloride	1J	--	--	--	--
chloroform	--	--	--	2J	2J
xlenes (total)	2J	--	--	--	--
Semivolatile Organics					
acenaphthene	4J	--	--	--	--
fluorene	4J	--	--	--	--
phenanthrene	5J	--	--	--	--
TICS+					
1-methylnaphthalene	26J	--	--	--	--
(90-12-0)					
Analyte Detected					
(values in μg/L)					
aluminum	37.6B	51B	51B	--	--
arsenic	--	3.9B	4.5B	--	--
barium	37.8B	64.8B	64.3B	--	--
calcium	234,000	548,000	594,000	413BJ	413BJ

Table 4-2 (Cont.)

Sample Collection Information and Parameters	MW1	Sample Number		Blank
		MW2	Duplicate	
cobalt	--	11.48	13.38	--
copper	5.3BJ	--	5.8BJ	80.7
iron	92.1BJ	3,640J	2,350J	100J
lead	5.2J	4.4J	2.4BJ	2.7BJ
magnesium	90,400	151,000	159,000	107B
manganese	11BJ	1,630	1,730	2.5BJ
mercury	--	0.25	--	--
nickel	--	50.2	46.6	--
potassium	12,000	13,700	13,000	--
selenium	15.5NJ	R	R	--
sodium	270,000	518,000	482,000	367B
thallium	R	R	R	R
zinc	84.5J	189J	437J	23.9J

-- Not detected.

+ TIC Chemical Abstracts Service (CAS) numbers, if available, are in parentheses.

Table 4-2 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
ANALYTE QUALIFIERS		
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Roadway site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

Two on-site monitoring wells were sampled during the SSI of the Roadway site to assist in the assessment of the potential for the migration of TCL compounds and TAL analytes into groundwater from the site. A potential for TCL compounds and/or TAL analytes to migrate into groundwater exists based on the presence of TCL compounds and TAL analytes in on-site soil/sediment and monitoring well samples, the history of the site, and the geology of the area of the site.

The TAL analyte manganese was detected in well MW2 at 1,630 $\mu\text{g/L}$; zinc was detected in well MW2 at 189J $\mu\text{g/L}$ (see Table 4-2 for definitions and interpretations of qualifiers). Additional TAL analytes that were detected in monitoring well samples include cobalt, copper, lead, mercury, nickel, and selenium. Several TCL compounds, including several polycyclic aromatic hydrocarbons (PAHs), were detected in the monitoring well samples, but only at low concentrations.

The TAL analyte cyanide was detected in soil sample S6 at 18.5 mg/kg. Additional TAL analytes that were detected in the on-site soil/

sediment samples include cadmium, cobalt, lead, manganese, mercury, and selenium.

TCL compounds were detected in on-site soil/sediment samples. Dieldrin was detected at 87J $\mu\text{g/kg}$ in sample S1; it was also detected in samples S2, S3, S4 and S6. Bis(2-ethylhexyl)phthalate was detected at 1,600 $\mu\text{g/kg}$ in sample S5 and at 9,500 $\mu\text{g/kg}$ in sample S6. Several PAHs were detected above background levels in soil/sediment samples, including benzo[b]fluoranthene (1,800X $\mu\text{g/kg}$ in S5, 12,000 $\mu\text{g/kg}$ in S6) and benzo[k]fluoranthene (1,800XJ $\mu\text{g/kg}$ in S5, 12,000XJ $\mu\text{g/kg}$ in S6).

While there is no known history of the use or spills of these compounds at the site, the TCL compounds that were detected in on-site soil/sediment and monitoring well samples may be attributable to the site because they are constituents of diesel fuel (Coleman et al. 1984). The on-site soil/sediment samples were collected from the ditches that drain the terminal's semitrailer parking and refueling areas, and there is reason to believe that the TCL compounds that were detected originated from diesel fuel. Site representatives acknowledged that small amounts of diesel fuel were spilled during refueling (Wilk, Fagan, and Foley 1990). Dry deposition of PAH-containing particles from diesel exhausts also may contribute to the PAHs in the soil and sediment (Schuetzle and Perez 1983; Thibodeaux 1979).

The potential for the TCL compounds and TAL analytes detected in on-site soil/sediment samples to migrate from the site is also based upon the following geological information. Reports indicate that there are four major aquifers in the area of the site; 1) sand, gravel, and clay layers in glacial drift; 2) a Silurian dolomite layer; 3) a Cambrian-Ordovician aquifer of Glenwood-St. Peter and Iron-ton-Galesville sandstones; and 4) the Mt. Simon Sandstone. The sand and gravel beds and Silurian dolomite units are considered to be hydraulically connected. A Maquoketa Group Shale layer is believed to act as a confining layer, separating the Silurian dolomite from the Cambrian-Ordovician sandstone aquifers (Willman 1971).

The Silurian dolomite, with a thickness of approximately 400 feet, and the glacial drift together form the aquifer of concern (AOC) (Willman 1971). The clay, sand, and gravel layers in the glacial drift are reported in numerous well logs; however, there is no indication that

these layers are tapped for drinking water purposes (see Appendix E for area well logs). The surface of the AOC is a bedrock valley that slopes northeastward toward Lake Michigan and varies in depth from 30 to 150 feet (Willman 1971). At one time, this aquifer was the principal source of water in the area of the site, but municipal and residential systems are currently obtaining more of their water from Lake Michigan (Behnke 1989; Foster 1989; Frye 1987; Scalzetti 1988).

The potential for TCL compounds and TAL analytes to migrate to groundwater is limited because the clay in the glacial drift is believed to be an effective aquiclude. However, because the topographic surface of the AOC is highly variable, there are areas where the predominantly clay drift is sufficiently thin to allow surface water bodies to form a connection with the AOC. This type of connection may allow substances from the site to reach the AOC (Willman 1971). The regional groundwater flow in the dolomite aquifer once was thought to be to the northeast toward Lake Michigan, but more recent studies (Ludwig 1988) show that it is to the southwest. This gradient shift is thought to be caused by the extensive pumpage of over 50 public and private wells (Ludwig 1988).

Drinking water for residents in the area is obtained from private and municipal wells and surface water sources. Residents of Chicago Heights, Glenwood, and Lansing obtain their drinking water from Lake Michigan via the Hammond, Indiana, Water Department (Behnke 1989; Foster 1989; Frye 1987). Most of Lynwood's residents obtain their water from Lake Michigan also, but some residents are served by private wells (West 1989).

Fourteen municipal wells within a 3-mile radius of the site provide drinking water for approximately 31,050 residents (Maross 1991; Niefert 1985; Ross 1985; Stutler 1991). However, only 4 of the 14 wells are believed to draw from the AOC. These 4 wells are all located in Dyer, Indiana, approximately 2.5 miles east of the site and draw from the Silurian dolomite aquifer at depths of 103 to 274 feet (Stutler 1991). Approximately 11,000 persons in Dyer, Indiana, are served by this water system. The remaining 10 wells, including the municipal well nearest the site, draw from below the Maquoketa Group Shale confining layer.

The nearest municipal well is adjacent to the site near the center of the northern site boundary. Wiszowaty reported that no evidence of contamination has been observed in this well (Wiszowaty 1990a).

Well logs of the area of the site indicate that private wells northeast and east of the site draw water from the AOC. While logs of wells in the other directions from the site are not available (Dodd 1989), similar private wells that are south, west, and north of the site are assumed to draw from the Silurian dolomite aquifer, the AOC.

Private wells that are within a 3-mile radius of the site that draw from the AOC serve approximately 4,823 persons. The nearest private well drawing from the AOC is approximately 1/4 mile north of the site. The target population was calculated by counting 1,689 houses within a 3-mile radius of the site on United States Geological Survey (USGS) topographic maps (USGS 1953, 1962, 1962a, 1963, 1968, 1968a) in Cook County and multiplying by 2.75, the county's average persons-per-household value (U.S. Bureau of the Census 1982). Fifty-eight houses were counted in Will County, where the average persons-per-household value is 3.07 (U.S. Bureau of the Census 1982).

The total population that obtains its drinking water from the AOC is approximately 15,823 persons; 11,000 from municipal wells and approximately 4,823 from private wells.

5.3 SURFACE WATER

No surface water samples were collected during the SSI of the Roadway site. However, TCL compounds and TAL analytes were detected in on-site sediment samples.

The potential for TCL compounds and TAL analytes to migrate to surface water exists, based upon the detection of TCL compounds and TAL analytes in on-site sediment samples and the surface water migration pathway to Deer Creek through two wetlands located near the site.

A natural wetland is located in the northwest corner of the site. The owners of the truck terminal adjacent to the site were required to build the second wetland because the terminal displaced an existing natural wetland (Wilk, Fagan, and Foley 1990). The natural wetland drains into the man-made one. The man-made wetland empties into Deer Creek, which is approximately 1/2 mile west of the on-site retention

pond. The creek is used for fishing within 3 miles downstream of the site (Ross 1991).

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Roadway site. During the reconnaissance inspection, FIT site-entry instruments (OVA, explosimeter, hydrogen cyanide monitor, and radiation monitor) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does exist for TCL compounds and TAL analytes to migrate from the site via windblown particles. Approximately 85% of the site is covered with asphalt or buildings and almost all of the remaining 15% of the site is vegetated with grass. However, parts of the bottom of the retention pond are unvegetated. The pond and on-site ditches dry up after periods of rainfall. TCL compounds and TAL analytes were detected in unvegetated areas.

The population within a 4-mile radius of the site potentially affected by a release of TCL compounds and TAL analytes to the air is approximately 52,668 persons. This population was calculated by counting houses in Cook and Will counties in Illinois, and Lake County in Indiana, on USGS topographic maps within a 4-mile radius of the site (USGS 1953, 1962, 1962a, 1963, 1968, 1968a) and multiplying by each county's persons-per-household value. The house-count figures for Cook, Will, and Lake counties were 1,733, 315, and 296, respectively. The persons-per-household values for the counties were 2.75, 3.07, 2.96, respectively (U.S. Bureau of the Census 1982). The population figure derived from the house counts was added to the numbers of persons in Chicago Heights, East Chicago Heights (now known as Ford Heights), Glenwood, Lansing, Sauk Village, South Chicago Heights, and Steger in Illinois, and Dyer in Indiana. The estimated populations of those cities that are within a 4-mile radius of the site are 18,513, 5,347, 8,430, 2,904, 10,906, 2,949, 3,708 and 9,555, respectively.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Wiszowaty, Code Enforcement Officer, Sauk Village, no documentation exists of an incident of fire or explosion at the site (Wiszowaty 1990). According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT and observations made during the SSI, no incidents of direct contact with TCL compounds or TAL analytes at the Roadway site have been documented.

The site is completely fenced, but entry to the site is not controlled by a guard or other means. The site entrance gate is not locked. Consequently, there is a potential for members of the local population to come into direct contact with TCL compounds and TAL analytes that were detected in on-site soil/sediment samples.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is 6,009 persons. This population was calculated by counting 105 houses on USGS topographic maps within a 1-mile radius of the site (USGS 1962, 1968) and multiplying this number by a persons-per-household value of 2.75 (U.S. Bureau of the Census 1982). This number was added to approximately 5,453 persons in Sauk Village and the approximately 267 persons in East Chicago Heights.

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6272:8

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D980677843

II. SITE NAME AND LOCATION

01 SITE NAME: (Legal, common, or descriptive name of site)
Roadway Trucking Terminal
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Rte 30 & Torrence Ave (2000 Lincoln Highway)
03 CITY Chicago Heights (in jurisdiction of) 04 STATE IL 05 ZIP CODE 60411 06 COUNTY Cook 07 COUNTY CODE 31 08 CONG DIST 17
09 COORDINATES
LATITUDE 41 30 30.0 LONGITUDE 087 34 30.0
10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

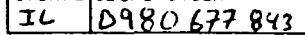
01 DATE OF INSPECTION 07/12/90 02 SITE STATUS ☒ ACTIVE ☐ INACTIVE 03 YEARS OF OPERATION 1970 1 present UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Charles G. Hall	Environmental Engineer	E&E/FIT	(312) 663-9415
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Karen Spangler	Environmental Engineer	E&E/FIT	(312) 663-9415
Sam Borries	Geologist	E&E/FIT	(312) 663-9415
Larry Nelson	Biologist	E&E/FIT	(312) 663-9415
Ron Bugg	Health Physicist/ Industrial Hygienist	E&E/FIT	(312) 663-9415
			()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Grant B. Wilk	Environmental Geologist	Roadway Services Inc. 1077 Gorge Blvd., Box 80 Akron, Ohio 44309-0088	(216) 258-2443
James J. Fagan	District Safety Manager	Roadway Express, Inc. 2000 Lincoln Highway Chicago Hts, IL 60411-7706	(708) 757-1086
Guy T. Foley	District Maintenance Manager	Roadway Express, Inc. 2000 Lincoln Highway Chicago Hts, IL 60411-7706	(708) 757-1082
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one)
☒ PERMISSION ☐ WARRANT 18 TIME OF INSPECTION 8:00 - 17:30 19 WEATHER CONDITIONS cloudy; mid 60s; moderate wind

IV. INFORMATION AVAILABLE FROM

01 CONTACT Thomas Cranse 02 OF (Agency/Organization) Illinois EPA 03 TELEPHONE NO. (212) 782-9848
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Charles G. Hall 05 AGENCY U.S.EPA 06 ORGANIZATION E&E/FIT 07 TELEPHONE NO. 312/663-9415 08 DATE 1/11/91
MONTH DAY YEAR



☒ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

EPA FORM 2C70-13(7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D980677843

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15823 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details

01 ☒ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

See Section 5.3 of the Narrative for Details

01 ☒ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 52688 04 NARRATIVE DESCRIPTION

See Section 5.4 of the Narrative for Details

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

See Section 5.5 of the Narrative for Details

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6009 04 NARRATIVE DESCRIPTION

See Section 5.6 of the Narrative for Details

01 ☒ F CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 12 July 1990) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 40 04 NARRATIVE DESCRIPTION
(Acres)

See Sections 2.3 and 5.2 of the Narrative for Details.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15823 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details.

01 ☒ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 1200 04 NARRATIVE DESCRIPTION

See Section 2.3 of the Narrative for Details

01 ☒ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 52688 04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D 980 672 843

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Discolored soil and/or vegetation in several locations at the site.

01 ☐ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No damage to fauna was observed during the SSI.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

The potential for contamination of the food chain exists because TCL compound and TAL analytes were detected in on-site samples and because adjacent land northeast of the site is used for agricultural production.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills, Runoff/Standing Liquids, Leaking Drums)

03 POPULATION POTENTIALLY AFFECTED: 15823

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

See Section 5.2 of the Narrative for Details

01 ☒ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

No damage to off-site property was observed during the SSI, but the potential exists as described in item L of this subsection.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

The pipes that connect the drainage ditches to the retention pond and the retention pond to the wetlands may be contaminated. See Sections 3.3 and 5.3 of the Narrative for details.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No illegal or unauthorized dumping at the site has been reported.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

52688

IV. COMMENTS

None

V. SOURCES OF INFORMATION (Cite specific references e.g., State files, sample analysis reports)

E&E/FIT Site Inspection July 1990.

E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. VIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE	No permits.			

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	5
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	see below		<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND	200	gallon	<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> E. TANK, BELOW GROUND	see below		<input type="checkbox"/> E. WASTE OIL PROCESSING	06 AREA OF SITE
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	40 (Acres)
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER off-site disposal (Specify) on treatment	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

See Section 2.3 of the narrative for details.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The retention pond into which the drainage ditches empty is not known to be lined. Oil absorption booms are located at the entry point of the ditches to the pond and in the ditches.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS The site is completely fenced, but there is no gate or guard to ensure control of entry. On-site access to other parts of the site is not controlled. The retention pond is not easily accessible.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

E&E/FIT Site Inspection July 1990.
E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D980 677 843

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	02 STATUS	03 DISTANCE TO SITE															
<table border="1"><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input checked="" type="checkbox"/></td><td>B. <input checked="" type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/></td><td>D. <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table border="1"><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input checked="" type="checkbox"/></td></tr><tr><td><input checked="" type="checkbox"/> Unknown</td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Unknown	E. <input type="checkbox"/>	F. <input type="checkbox"/>	adjacent on A. North side (mi) B. ~ 1/4 (mi)
SURFACE	WELL																
COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>																
NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>															
<input checked="" type="checkbox"/> Unknown	E. <input type="checkbox"/>	F. <input type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)			
<input checked="" type="checkbox"/> A. ONLY SOURCE FOR DRINKING <input type="checkbox"/> B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) <input type="checkbox"/> D. NOT USED, UNUSEABLE			
02 POPULATION SERVED BY GROUND WATER 15823		03 DISTANCE TO NEAREST DRINKING WATER WELL ~ 1/4 (mi)	
04 DEPTH TO GROUNDWATER 13 to 23 (ft)	05 DIRECTION OF GROUNDWATER FLOW SW	06 DEPTH TO AQUIFER OF CONCERN 63 (ft)	07 POTENTIAL YIELD OF AQUIFER Unknown (gpd)
08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings) A layer of Mequoketa shale appears to act as a confining layer for the municipal wells that are within 3-miles of the site. Most of the private wells tap a limestone aquifer. Clay and sand layers overlie the limestone. The depth to limestone varies from 63 to 125 feet. See Section 5.2 of the

10 RECHARGE AREA	11 DISCHARGE AREA
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
COMMENTS Recharge may be attributable to precipitation or via Lake Michigan. See Section 5.2.	COMMENTS none
Narrative for details.	

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)			
<input type="checkbox"/> A. RESERVOIR, RECREATION, DRINKING WATER SOURCE <input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL <input checked="" type="checkbox"/> D. NOT CURRENTLY USED <input checked="" type="checkbox"/> Unknown			
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER			
NAME	AFFECTED	DISTANCE TO SITE	
Deer Creek	<input type="checkbox"/>	~ 1/2 (mi)	
	<input type="checkbox"/>	(mi)	
	<input type="checkbox"/>	(mi)	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. ~ 6009 NO. OF PERSONS	TWO (2) MILES OF SITE B. ~ 18337 NO. OF PERSONS	THREE (3) MILES OF SITE C. ~ 27291 NO. OF PERSONS	~ 1/8 (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~ 6668 homes		04 DISTANCE TO NEAREST OFF-SITE BUILDING ~ 1/8 (mi)	

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The immediate vicinity of the site is rural. However, suburban areas are ~ 1/2 mile south, 1 mile west, and 3 miles north of the site.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 0980 677 843

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☒ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-8} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☒ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

~ 63 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

+ 3.5 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.4 (in)

08 SLOPE

SITE SLOPE

< 3

DIRECTION OF SITE SLOPE

W

TERRAIN AVERAGE SLOPE

< 3

09 FLOOD POTENTIAL

SITE IS IN N/A YEAR FLOODPLAIN

10

n/a

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. N/A (mi)

B. ~100 ft. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

> 1 (mi)

ENDANGERED SPECIES n/a

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

~~RESIDENTIAL AREAS~~ NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND

AG LAND

A. ~1/2 (mi)

B. ~100 yds (mi)

C. n/a (mi)

D. ~100 yds. (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located on a plain that is slightly higher than the wetlands that are west of the site. See Section 2.2 of the Narrative for details.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E&E/FIT Site Inspection July 1990
E&E/FIT Region V Files
Illinois Dept. of Public Health Well Logs
Cook County: T35N, R15E, Sections 17-20

Willman 1971 Geology of the Chicago Area
Climatic Atlas of the U.S. 1979
Davis 1969 Porosity and Permeability
U.S.G.S. Topo maps



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION
01 STATE IL 02 SITE NUMBER D980677893

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	TAL Analytes; CompuChem Research Triangle Park, NC TCL Compounds; Skinner & Sherman Waltham, MA	On File
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	7	TAL Analytes; CompuChem RTP, NC TCL Compounds; Skinner & Sherman Waltham, MA	On File
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Geiger Counter w/ pancake probe	No measurements above background.
Oxygen Meter	No deviations from background
H ₂ Nu	No measurements above background
Dräger Tubes	No measurements above background
Explosimeter	No measurements above background

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment 111 W. Jackson Blvd (Name of organization or individual) Chgo, IL
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology & Environment 111 W. Jackson Blvd. Chicago, IL

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

pH	Refer to Table 4-2 in the Narrative for Details.
Conductivity	Refer to Table 4-2 in the Narrative for Details.
temperature	Refer to Table 4-2 in the Narrative for Details.
Well and water depth	Refer to Table 3-1 in the Narrative for Details.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

E&E/FIT Region V Files.
E&E/FIT Site Inspection July 1990.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D 980 677843

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME Roadway Express, Inc.		02 D+B NUMBER unknown		08 NAME Roadway Services, Inc.		09 D+B NUMBER unknown	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2000 Lincoln Highway		04 SIC CODE unknown		10 STREET ADDRESS (P.O. Box, RFD #, etc.) 1077 Gorge Blvd., P.O. Box 88		11 SIC CODE unknown	
05 CITY Sank. Village		06 STATE IL		07 ZIP CODE 60411		12 CITY Akron	
13 STATE OH		14 ZIP CODE 44309-0085					
01 NAME n/a		02 D+B NUMBER		08 NAME n/a		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
13 STATE		14 ZIP CODE					
01 NAME n/a		02 D+B NUMBER		08 NAME n/a		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
13 STATE		14 ZIP CODE					
01 NAME n/a		02 D+B NUMBER		08 NAME n/a		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
13 STATE		14 ZIP CODE					
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME former farmland; unknown		02 D+B NUMBER		01 NAME n/a		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		08 CITY	
09 STATE		10 ZIP CODE					
01 NAME n/a		02 D+B NUMBER		01 NAME n/a		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		08 CITY	
09 STATE		10 ZIP CODE					
01 NAME n/a		02 D+B NUMBER		01 NAME n/a		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		08 CITY	
09 STATE		10 ZIP CODE					
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							
E&E/FIT Site Inspection July 1990.							
E&E/FIT Region V Files.							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D980 677 843

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME
Roadway Express, Inc.
02 D+B NUMBER
unknown
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
2000 Lincoln Highway
04 SIC CODE
unknown
05 CITY
Sank Village
06 STATE
IL
07 ZIP CODE
60411
08 YEARS OF OPERATION
1970 to present
09 NAME OF OWNER
Roadway Express, Inc.

OPERATOR'S PARENT COMPANY (if applicable)

10 NAME
Roadway Services, Inc.
11 D+B NUMBER
unknown
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
1077 Gorge Blvd., P.O. Box 88
13 SIC CODE
unknown
14 CITY
Akron
15 STATE
OH
16 ZIP CODE
44309-0088

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME
none
02 D+B NUMBER
none
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
none
04 SIC CODE
none
05 CITY
none
06 STATE
none
07 ZIP CODE
none
08 YEARS OF OPERATION
none
09 NAME OF OWNER DURING THIS PERIOD
none

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

10 NAME
none
11 D+B NUMBER
none
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
none
13 SIC CODE
none
14 CITY
none
15 STATE
none
16 ZIP CODE
none

01 NAME
n/a
02 D+B NUMBER
n/a
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
n/a
04 SIC CODE
n/a
05 CITY
n/a
06 STATE
n/a
07 ZIP CODE
n/a
08 YEARS OF OPERATION
n/a
09 NAME OF OWNER DURING THIS PERIOD
n/a

10 NAME
n/a
11 D+B NUMBER
n/a
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
n/a
13 SIC CODE
n/a
14 CITY
n/a
15 STATE
n/a
16 ZIP CODE
n/a

01 NAME
n/a
02 D+B NUMBER
n/a
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
n/a
04 SIC CODE
n/a
05 CITY
n/a
06 STATE
n/a
07 ZIP CODE
n/a
08 YEARS OF OPERATION
n/a
09 NAME OF OWNER DURING THIS PERIOD
n/a

10 NAME
n/a
11 D+B NUMBER
n/a
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
n/a
13 SIC CODE
n/a
14 CITY
n/a
15 STATE
n/a
16 ZIP CODE
n/a

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E&E/FIT Region V Files.
E&E/FIT Site Inspection July 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D980 677 843

II. ON-SITE GENERATOR

01 NAME Same as operator	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME none	02 D+B NUMBER	01 NAME none	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME n/a	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME Safety Kleen	02 D+B NUMBER unknown	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) unknown	04 SIC CODE unknown	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY Elgin	06 STATE IL	05 CITY	06 STATE 07 ZIP CODE unknown
01 NAME n/a	02 D+B NUMBER	01 NAME n/a	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E&E/FIT Site Inspection July 1990
E&E/FIT Region V Files.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D980 677 843

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

unknown

See Section 2.3 of the Narrative for details.

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE

03 AGENCY

n/a

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE

03 AGENCY

n/a



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D980 677 843

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☒ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE June 1989

03 AGENCY unknown

U.S.T. spill. Soil removed also. See Section 2.3 of the Narrative for Details.

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

n/a

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

none known.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

E&E/FIT Region V Files.
E&E/FIT Site Inspection July 1990.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980677843

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

It is not known if soil removal actions have been completed to satisfy enforcement actions or if Roadway did the work voluntarily. Representatives from IEPA and U.S.EPA are known to have suggested the work.

III. SOURCES OF INFORMATION (See specific references, e.g., State files, sample analysis reports)

E&E/FIT Site Inspection July 1990.
E&E/FIT Region V Files.

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 1 **OF** 17

U.S. EPA ID: ILD980677843 **TDD:** F05-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 12:53

DIRECTION OF PHOTOGRAPH:

S

WEATHER

CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

S1



DESCRIPTION: Close-up view of S1.

DATE: 12 July 1990

TIME: 12:53

DIRECTION OF PHOTOGRAPH:

S

WEATHER

CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

S1



DESCRIPTION: Perspective view of S1.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 2 OF 17

U.S. EPA ID: ILD 980 677 843 TDD: F05-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 13:50

DIRECTION OF
PHOTOGRAPH:

W

WEATHER
CONDITIONS:

cloudy; ~65°F

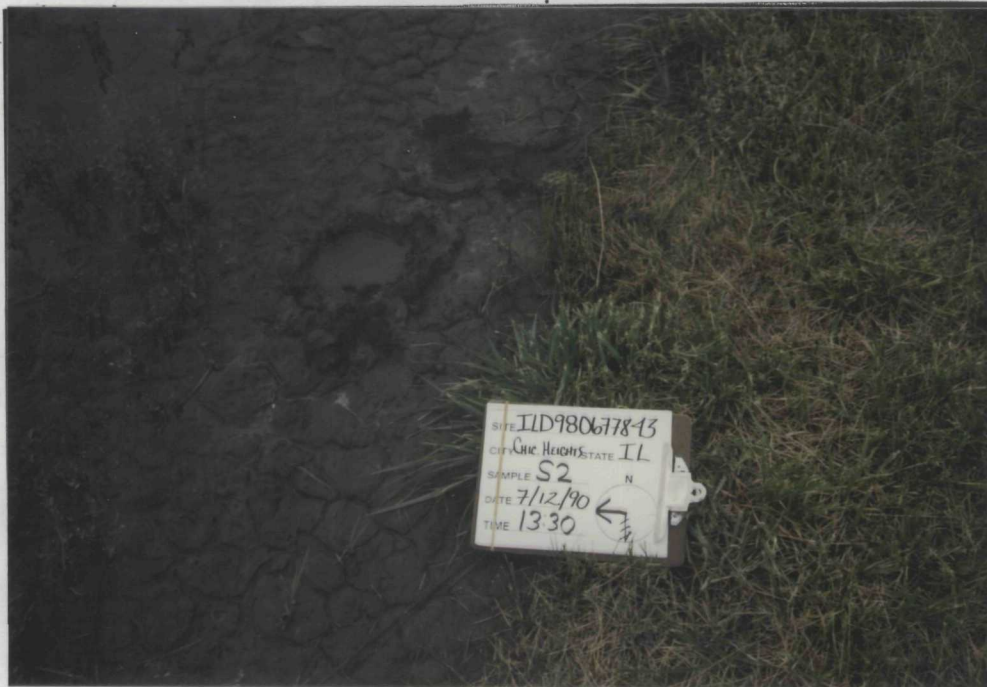
PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

S2



DESCRIPTION: Close-up view of S2.

DATE: 12 July 1990

TIME: 13:50

DIRECTION OF
PHOTOGRAPH:

W

WEATHER
CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

S2



DESCRIPTION: Perspective view of S2.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 3 OF 17

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 14:20

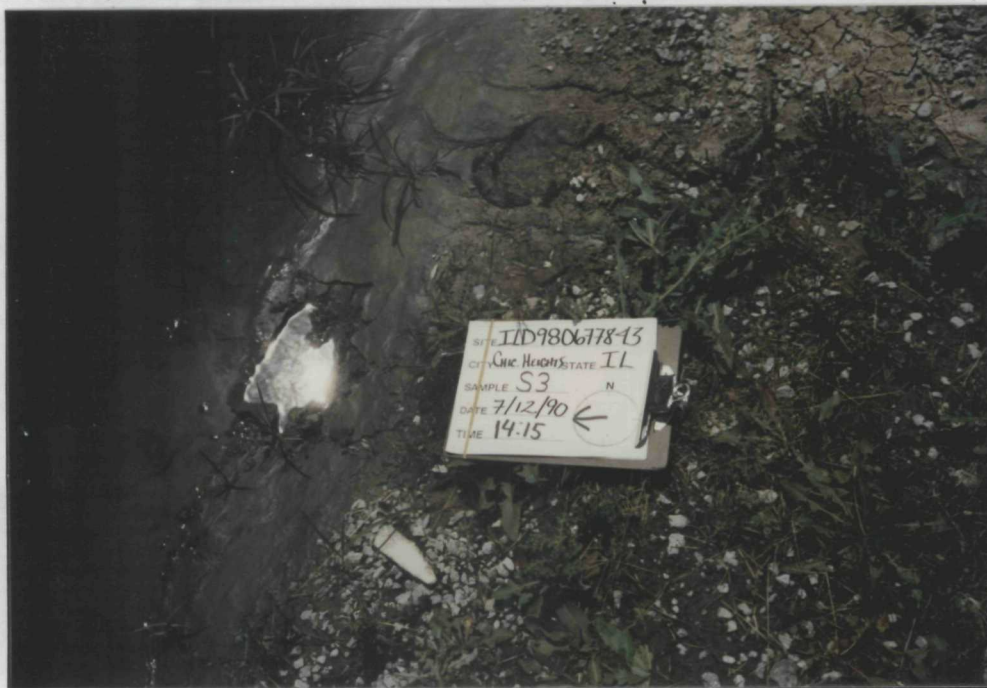
DIRECTION OF
PHOTOGRAPH:

W

WEATHER
CONDITIONS: sunny; ~70°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
S3



DESCRIPTION: Close-up view of S3.

DATE: 12 July 1990

TIME: 14:20

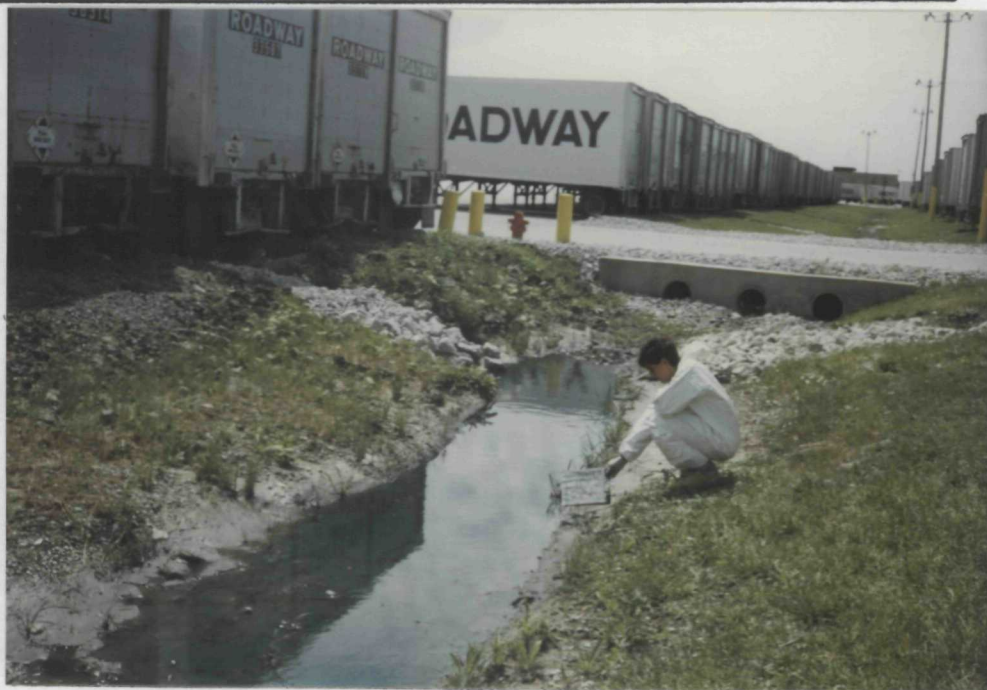
DIRECTION OF
PHOTOGRAPH:

W

WEATHER
CONDITIONS: Sunny; ~70°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
S3



DESCRIPTION: Perspective view of S3

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking TerminalPAGE 4 OF 17U.S. EPA ID: ILD 980 677 843 TDD: F05-8808-011PAN: FIL0661SBDATE: 12 July 1990TIME: 14:40DIRECTION OF
PHOTOGRAPH:NWEATHER
CONDITIONS:Sunny; ~70°F

PHOTOGRAPHED BY:

Charles HallSAMPLE ID
(if applicable):S4DESCRIPTION: Close-up view of S4.DATE: 12 July 1990TIME: 14:40DIRECTION OF
PHOTOGRAPH:N

WEATHER

CONDITIONS: sunny; ~70°FPHOTOGRAPHED BY: Charles HallSAMPLE ID
(if applicable): S4DESCRIPTION: Perspective
view of S4.

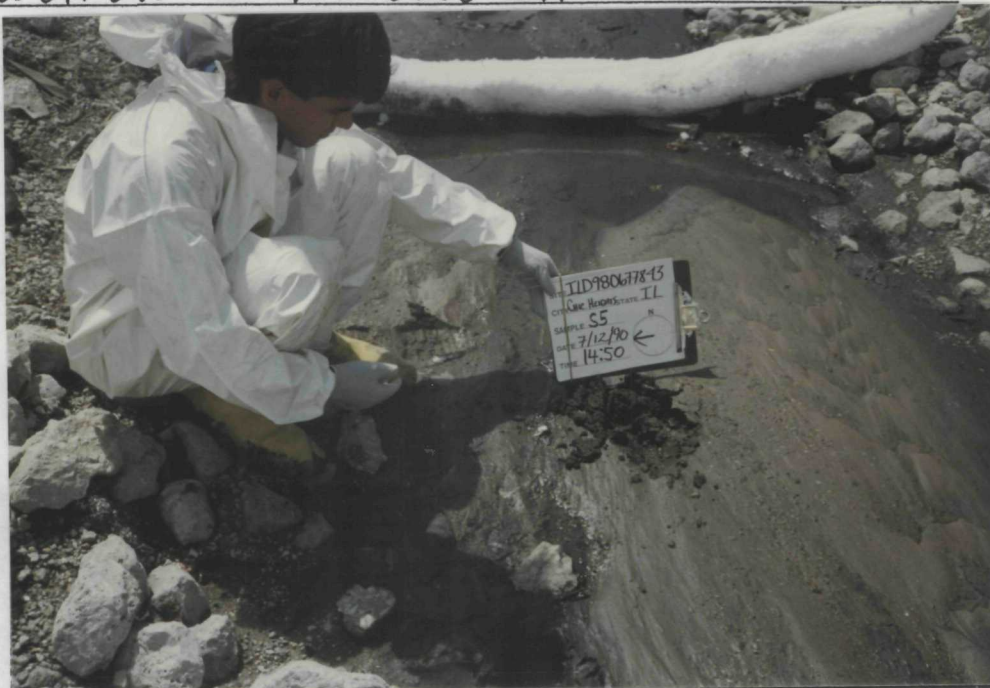
FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 5 OF 17

U.S. EPA ID: ILD980677843 TDD: F05-8808-011PAN: FIL06615BDATE: 12 July 1990TIME: 14:55DIRECTION OF
PHOTOGRAPH:WWEATHER
CONDITIONS:sunny; ~70°F

PHOTOGRAPHED BY:

Charles HallSAMPLE ID
(if applicable):S5DESCRIPTION: Close-up view of S5.DATE: 12 July 1990TIME: 14:55DIRECTION OF
PHOTOGRAPH:W

WEATHER

CONDITIONS: sunny; ~70°FPHOTOGRAPHED BY: Charles HallSAMPLE ID
(if applicable): S5DESCRIPTION: Perspectiveview of S5.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 6 OF 17

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 15:40

DIRECTION OF
PHOTOGRAPH: N

WEATHER
CONDITIONS: sunny; ~70°F

PHOTOGRAPHED BY: Charles Hall

SAMPLE ID
(if applicable): S6

DESCRIPTION: Close-up

View of S6.



DATE: 12 July 1990

TIME: 15:40

DIRECTION OF
PHOTOGRAPH: S

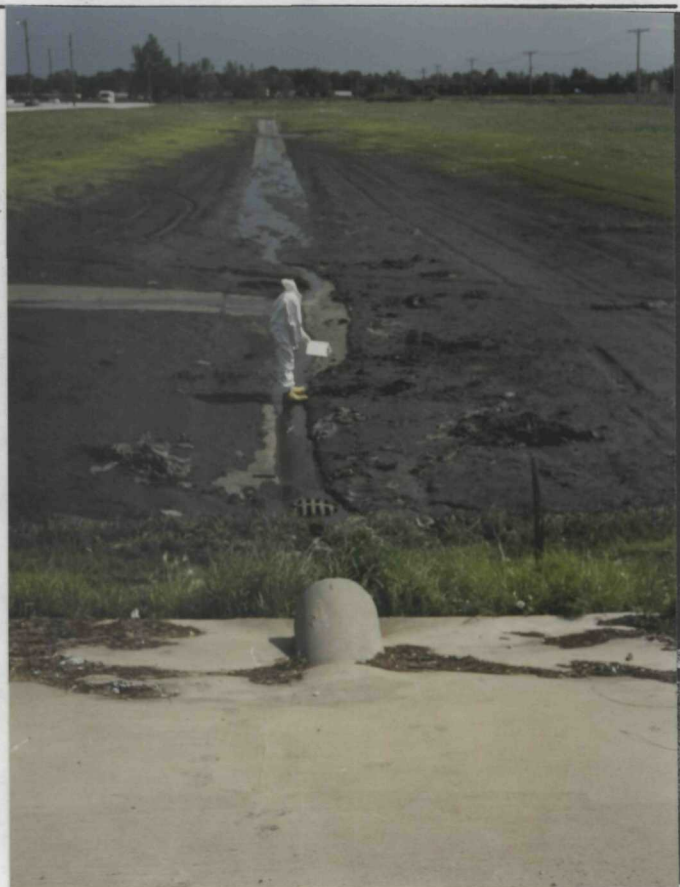
WEATHER
CONDITIONS: sunny; ~70°F

PHOTOGRAPHED BY: Charles Hall

SAMPLE ID
(if applicable): S6

DESCRIPTION: Close-up

view of S6.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 7 OF 17

U.S. EPA ID: ILD980677843 TDD: FOS-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 13:34

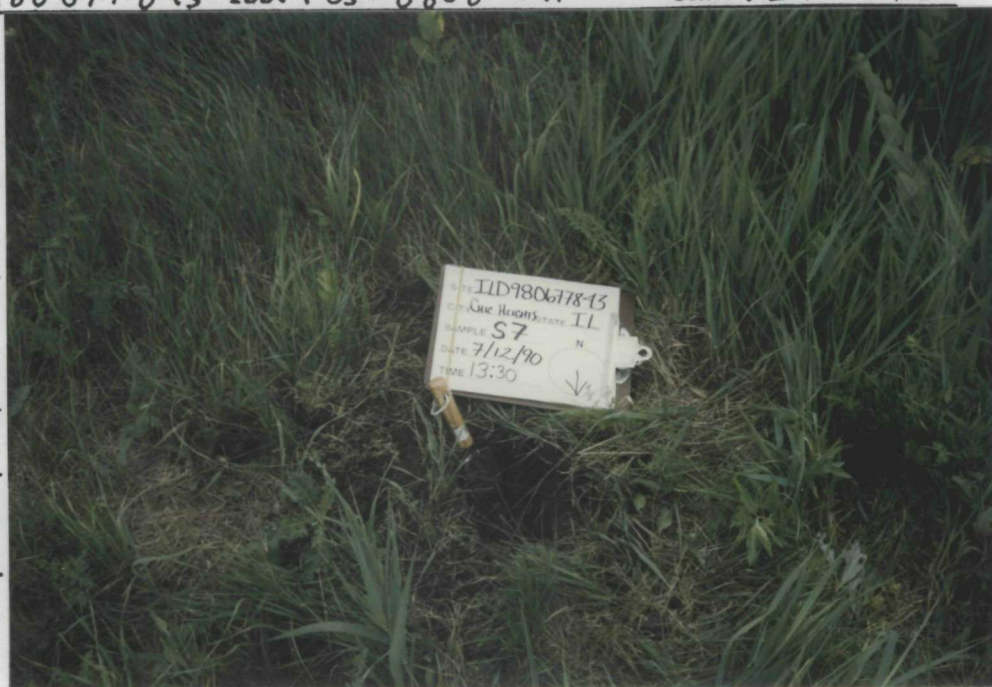
DIRECTION OF
PHOTOGRAPH:

S

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
S7



DESCRIPTION: Close-up view of S7.

DATE: 12 July 1990

TIME: 13:34

DIRECTION OF
PHOTOGRAPH:

S

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
S7



DESCRIPTION: Perspective view of S7.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 8 OF 17

U.S. EPA ID: ILD 980 677 843 TDD: F05-8808-011

PAN: FIL06615B

DATE: 12 July 1990

TIME: 16:00

DIRECTION OF
PHOTOGRAPH:

N

WEATHER

CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

MW1



DESCRIPTION: Close-up view of MW1.

DATE: 12 July 1990

TIME: 16100

DIRECTION OF
PHOTOGRAPH:

N

WEATHER

CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

MW1



DESCRIPTION: Perspective view of MW1.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 9 OF 17

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAR: FILO66LSB

DATE: 12 July 1990

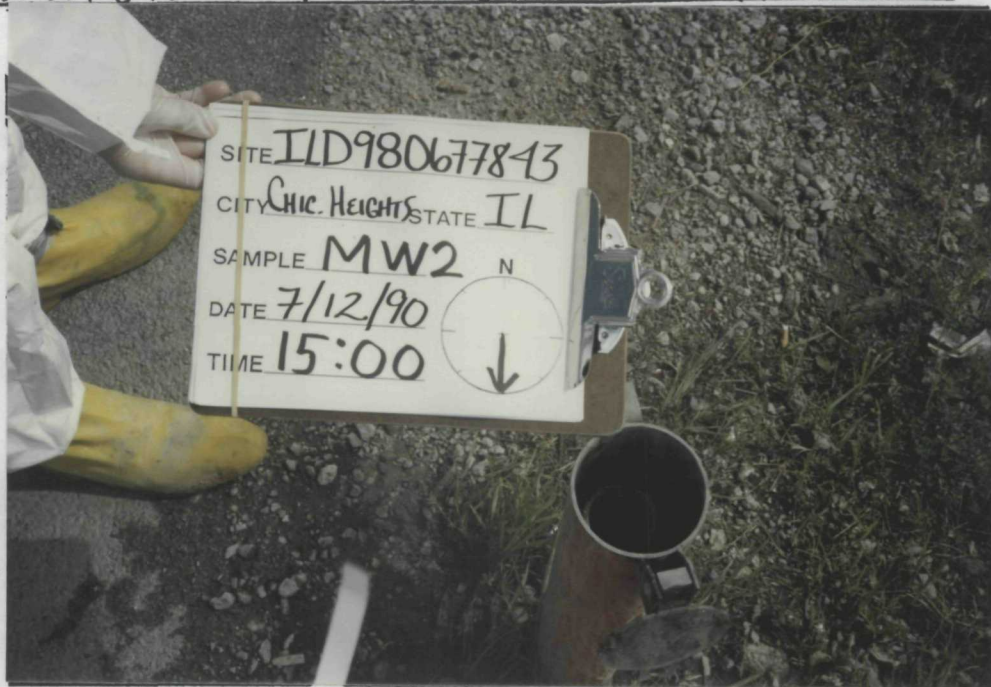
TIME: 15:50

DIRECTION OF
PHOTOGRAPH:
S

WEATHER
CONDITIONS:
mostly cloudy;
~ 65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
MW2



DESCRIPTION: Close-up view of MW2.

DATE: 12 July 1990

TIME: 15:50

DIRECTION OF
PHOTOGRAPH:
S

WEATHER
CONDITIONS:
Mostly cloudy;
~ 65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
MW2



DESCRIPTION: Perspective view of MW2.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 10 OF 17

U.S. EPA ID: ILD980677843 TDD: FOS-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 11:10

DIRECTION OF
PHOTOGRAPH:

SW

WEATHER

CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

n/a

DESCRIPTION:

Retention pond on western section of site.



DATE: 12 July 1990

TIME: 11:12

DIRECTION OF
PHOTOGRAPH:

S

WEATHER

CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

n/a

DESCRIPTION:

Western end of terminal lot; access drive
to employee parking.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 11 OF 17

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 1112

DIRECTION OF
PHOTOGRAPH:
N

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
n/a



DESCRIPTION: Western end of terminal lot; access drive
to employee parking.

DATE: 12 July 1990

TIME: 1215

DIRECTION OF
PHOTOGRAPH:
E

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
n/a



DESCRIPTION: Drainage ditch between terminal lot and
employee parking.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 12 OF 17

U.S. EPA ID: ILD980677843

TDD: F05-8808-011

PAN: FIL06616B

DATE: 12 July 1990

TIME: 13:52

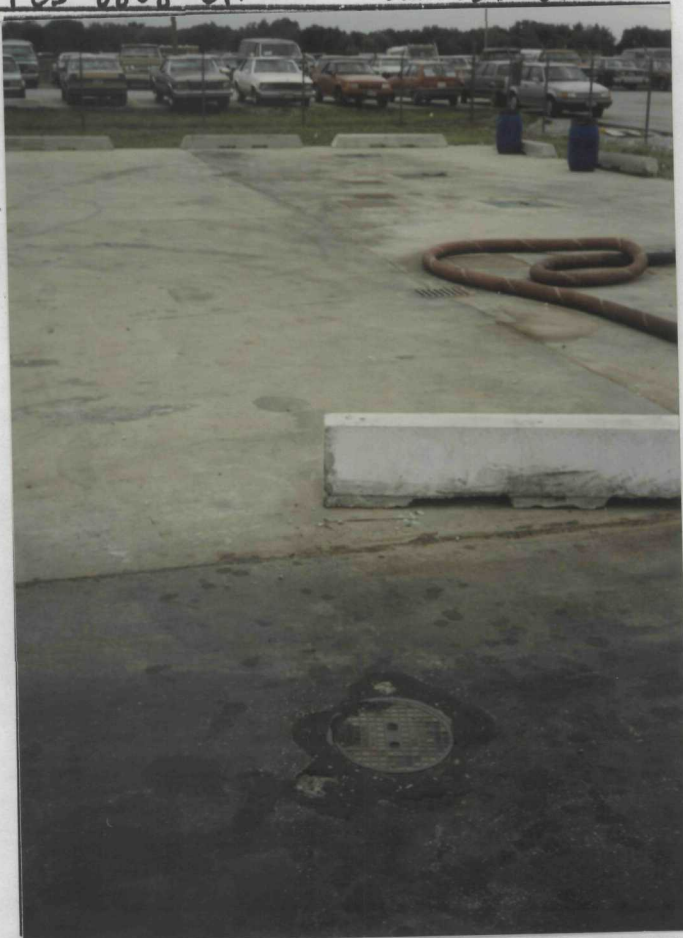
DIRECTION OF
PHOTOGRAPH: S

WEATHER
CONDITIONS: cloudy; ~65°F

PHOTOGRAPHED BY: Charles Hall

SAMPLE ID
(if applicable): n/a

DESCRIPTION: MW cover in
lower center; diesel
fuel UST farm.



DATE: 12 July 1990

TIME: 13:52

DIRECTION OF
PHOTOGRAPH: NE

WEATHER
CONDITIONS: cloudy; ~65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable): n/a



DESCRIPTION: Drum storage area. Drums contain lubricating
and hydraulic oil (green), antifreeze (black), windshield fluid (orange) and
automatic transmission fluid (blue).

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 13 OF 217

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAN: FIL06615B

DATE: 12 July 1990

TIME: 13:52

DIRECTION OF
PHOTOGRAPH:

E

WEATHER
CONDITIONS:
cloudy; ~65°F

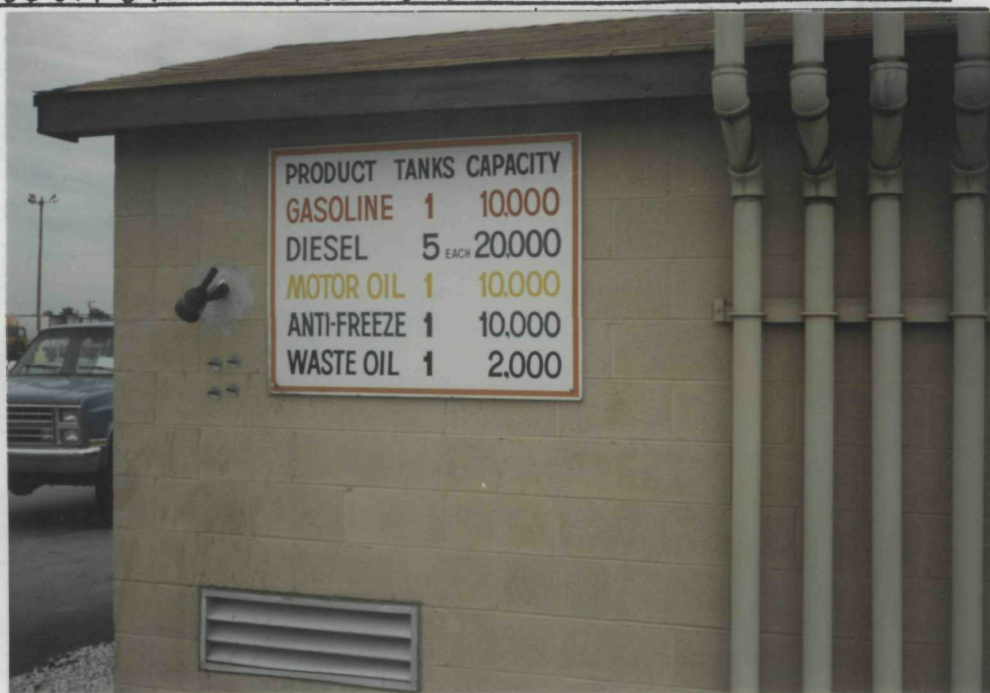
PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID
(if applicable):

n/a

DESCRIPTION: Billboard on building near material storage
area.



DATE: 12 July 1990

TIME: 13:54

DIRECTION OF
PHOTOGRAPH:

S

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID
(if applicable):

n/a

DESCRIPTION: Waste antifreeze storage tank.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 14 OF 17

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 11:37

DIRECTION OF
PHOTOGRAPH:

W

WEATHER
CONDITIONS:

Cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID
(if applicable):

n/a



DESCRIPTION: Drainage ditch along southern border of site.

DATE: 12 July 1990

TIME: 11:38

DIRECTION OF
PHOTOGRAPH:

S

WEATHER
CONDITIONS:

cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID
(if applicable):

n/a



DESCRIPTION: Sauk Village Water tower.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 15 OF 17

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAN: FIL0661SB

DATE: 12 July 1990

TIME: 11:37

DIRECTION OF
PHOTOGRAPH:

E

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID
(if applicable):

n/a

DESCRIPTION: Drainage ditch along southern border of site.



DATE: 12 July 1990

TIME: 11:45

DIRECTION OF
PHOTOGRAPH:

N

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID
(if applicable):

n/a

DESCRIPTION: Eastern border of site.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Tracking Terminal

PAGE 16 OF 47

U.S. EPA ID: ILD980677843 TDD: F05-8808-011

PAN: FIC066158

DATE: 12 July 1990

TIME: 11:44

DIRECTION OF
PHOTOGRAPH:
NE

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
n/a



DESCRIPTION: Former retention pond.

DATE: 12 July 1990

TIME: _____

DIRECTION OF
PHOTOGRAPH:
S

WEATHER
CONDITIONS:
cloudy; ~65°F

PHOTOGRAPHED BY:
Charles Hall

SAMPLE ID
(if applicable):
n/a



DESCRIPTION: Front of Roadway Terminal.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Roadway Trucking Terminal

PAGE 17 OF 17

U.S. EPA ID: ILD 980 677 843 TDD: F05-8808-011

PAN: FILO661SB

DATE: 12 July 1990

TIME: 17:30

DIRECTION OF
PHOTOGRAPH:

W

WEATHER

CONDITIONS:

mostly cloudy;

~65°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

n/a



DESCRIPTION: East side of adjacent truck terminal.

DATE: 12 July 1990

TIME: 15:45

DIRECTION OF
PHOTOGRAPH:

NE

WEATHER

CONDITIONS:

sunny; ~70°F

PHOTOGRAPHED BY:

Charles Hall

SAMPLE ID

(if applicable):

n/a



DESCRIPTION: Wetland in northwest corner of site.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DOE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM
 TARGET ANALYTE LIST (TAL)
 INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water ($\mu\text{g/L}$)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

3767:1

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

White Copy -
Ill. Dep. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS: FILL IN

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 5 in. Depth 185 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☒
b. Driven ☐ Drive Pipe Diam. 5 in. Depth 82 ft.
c. Drilled ☐ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

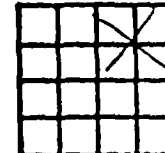
Building 23 Ft. Seepage Tile Field 90
Cess Pool ☐ Sewer (non Cast Iron) 28
Privy ☐ Sewer (Cast Iron) ☐
Septic Tank 57 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐
4. Date well completed June 30, 1978
5. Permanent Pump Installed? Yes ☒ Date 7/78 No ☐
Manufacturer Sta-Rite Type Tub Location ☐
Capacity 11 gpm. Depth of Setting 140 Ft.
6. Well Top Sealed? Yes ☒ No ☐ Type Water tight cap
7. Pitless Adapter Installed? Yes ☒ No ☐
Manufacturer Paker Monitor Model Number Snappy
How attached to casing? Clamp on type
8. Well Disinfected? Yes ☒ No ☐
9. Pump and Equipment Disinfected? Yes ☒ No ☐
10. Pressure Tank Size 42 gal. Type Wal-X-Trol
Location Crawl space
11. Water Sample Submitted? Yes ☒ No ☐

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner FRANK DUNICANSON Well No. 1
Address Rt. 1 Box 470 Burnham Ave. Lynwood, Ill.
Driller J. J. STINEALT License No. 102-105
11. Permit No. 26220 Date June 28, 1978
12. Water from Limestone 13. County Cook
at depth 80 to 185 ft. Sec. 17
14. Screen: Diam. ☐ in. Twp. 35N
Length: ☐ ft. Slot ☐ Rge. 15E
Elev. ☐



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>Plastic Sch. 40</u>	<u>0</u>	<u>80</u>

SHOW
LOCATION IN
SECTION PLAT
1st 7 School's Trustee Subd
NE

16. Size Hole below casing: 4 3/4 in.
17. Static level 90 ft. below casing top which is 8" ft.
above ground level. Pumping level 105 ft. when pumping at 20
gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Yellow clay</u>	<u>6</u>	<u>6</u>
<u>Wet sand & silt</u>	<u>16</u>	<u>22</u>
<u>Blue clay gravel and silty sand</u>	<u>55</u>	<u>77</u>
<u>Broken rock, gravel & sand</u>	<u>3</u>	<u>80</u>
<u>limestone</u>	<u>105</u>	<u>185</u>
<u>bedrock at 80 ft.</u>		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED J. R. Stinealt DATE June 3, 1980

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED / MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug . Bored . Hole Diam. 5 in. Depth 200 ft.
Curb material . Buried Slab: Yes No X
b. Driven . Drive Pipe Diam. 5 in. Depth 84 ft.
c. Drilled . Finished in Drift . In Rock X
Tubular . Gravel Packed .
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

Building Ft. Seepage Tile Field 200
Cess Pool Sewer (non Cast iron)
Privy Sewer (Cast iron)
Septic Tank 200 Barnyard
Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes No X

4. Date well completed Aug. 31, 1977

5. Permanent Pump Installed? Yes X Date 9/77 No

Manufacturer Rada Type sub Location
Capacity 40 gpm. Depth of Setting 180 Ft.

6. Well Top Sealed? Yes X No Type Well Seal

7. Pitless Adapter Installed? Yes No X

Manufacturer Model Number

How attached to casing?

8. Well Disinfected? Yes No X

9. Pump and Equipment Disinfected? Yes No X

10. Pressure Tank Size 10 gal. Type

Location

11. Water Sample Submitted? Yes No X

REMARKS: This well is for irrigation. The

casing extends above ground & pump

discharges into a pond & Irrigating

pipes. No pitless, no tank.

10. Property owner RONALD NEUMERBAUER Well No. 1

Address R.R. 1 box 112 Chicago Heights, Ill.

Driller J.R. STINNERT License No. 102 105

11. Permit No. 55779 Date Aug. 24, 1977

12. Water from Limestone 13. County Cook

at depth 84 to 200 ft. Sec. 1876

14. Screen: Diam. in. Twp. 35N

Length: ft. Slot Rge. 15E

Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>Galv. Steel</u>	<u>0</u>	<u>84</u>

SHOW
LOCATION IN
SECTION PLAT
SE NW SW

(wing)

16. Size Hole below casing: 4 3/4 in.

17. Static level 50 ft. below casing top which is 8" ft.

above ground level. Pumping level 125 ft. when pumping at 40

gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Top soil and turf</u>	<u>2</u>	<u>2</u>
<u>Yellow sand very fine & dry</u>	<u>37</u>	<u>39</u>
<u>Blue mixed clay with sandy tex.</u>	<u>40</u>	<u>79</u>
<u>Sandy silt & gravel rocks</u>	<u>5</u>	<u>84</u>
<u>Limestone</u>		<u>200</u>
<u>Bedrock at 84 ft.</u>		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED J.R. Stinnert DATE May 28, 1980

White Copy -
Ill. Dep. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 12 in. Depth 350 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

Building 10+ Ft. Seepage Tile Field 75+
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank 50+ Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☐ No ☒

4. Date well completed May 22, 1986

5. Permanent Pump Installed? Yes ☐ Date ☐ No ☒

Manufacturer ☐ Type ☐ Location ☐
Capacity ☐ gpm. Depth of Setting ☐ Ft.

6. Well Top Sealed? Yes ☐ No ☐ Type ☐

7. Pitless Adapter Installed? Yes ☐ No ☐

Manufacturer ☐ Model Number ☐
How attached to casing? ☐

8. Well Disinfected? Yes ☐ No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size ☐ gal. Type ☐
Location ☐

11. Water Sample Submitted? Yes ☒ No ☐

REMARKS: County # 27347

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Harry Jongsma Well No. ☐
Address Route #1 Box 400, Chicago Heights, Ill
Driller W. E. Wehling License No. 102-2

11. Permit No. 123938 Date May 21, 1986

12. Water from ☐ 13. County Cook
at depth ☐ to ☐ ft. Sec. 19 4a

14. Screen: Diam. ☐ in. Twp. 35N
Length: ☐ ft. Slot ☐ Rge. 15E

Elev. ☐

120°N 25°E Swc NE
15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>12"</u>	<u>black steel</u>	<u>+1</u>	<u>70</u>

SHOW
LOCATION IN
SECTION PLAT
120°N 25°E
NE
(Aug 21)

16. Size Hole below casing: 11-7/8 in.

17. Static level 30 ft. below casing top which is ☐ ft.
above ground level. Pumping level ☐ ft. when pumping at ☐
gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Clay</u>	<u>9</u>	<u>9</u>
<u>Sand</u>	<u>24</u>	<u>33</u>
<u>Sandy Clay & Gravel</u>	<u>30</u>	<u>63</u>
<u>Broken Rock</u>	<u>7</u>	<u>70</u>
<u>Rock</u>	<u>155</u>	<u>225</u>
<u>Lime</u>	<u>125</u>	<u>350</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED ☐ DATE ☐

White -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug _____ Bored _____ Hole Diam. _____ in. Depth _____ ft.
Curb material _____ Buried Slab: Yes _____ No _____
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled ☒ Finished in Drift _____ In Rock ☒
Tubular _____ Gravel Packed _____
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

Building _____ Ft. Seepage Tile Field _____
Cess Pool _____ Sewer (non Cast Iron) _____
Privy _____ Sewer (Cast Iron) _____
Septic Tank _____ Barnyard _____
Leaching Pit _____ Manure Pile _____

3. Is water from this well to be used for human consumption?

Yes _____ No ☒

4. Date well completed 7-17-73

5. Permanent Pump Installed? Yes ☒ No _____

Manufacturer Lida Type Submersible

Capacity 30 gpm. Depth of setting 123 ft.

6. Well Top Sealed? Yes ☒ No _____

7. Pitless Adaptor Installed? Yes ☒ No _____

8. Well Disinfected? Yes _____ No ☒

9. Water Sample Submitted? Yes _____ No ☒

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Henry Van Du Noord Well No. _____

Address Van Du Noord Drive Cuta, Ill.

Driller J. Shupe License No. 102-177

11. Permit No. 24257 Date 7-18-73

12. Water from formation 13. County Cook

at depth 93 to 210 ft.

14. Screen: Diam. _____ in.

Length: _____ ft. Slot _____

Sec. 20
Twp. 35N
Rge. 15E
Elev. _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5"</u>	<u>ASTM A53 #15</u>	<u>0</u>	<u>93</u>

SHOW LOCATION IN SECTION PLAT
Lot 2 Van Du Noord's Add to Lynwood NW 1/4

16. Size Hole below casing: 5 in.

17. Static level 28 ft. below casing top which is 1 ft. above ground level. Pumping level 35 ft. when pumping at 30 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>0-12 Sand</u>		
<u>12-30 Clay</u>		
<u>30-50 Clay sand</u>		
<u>50-93 Clay gravel</u>		
<u>-210 Limestone</u>		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED J. Shupe DATE 4-29-73

Well Log 4

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 618, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 5 in. Depth 175 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
- c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packod ☐
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Grout		

2. Distance to Nearest:

- Building ☐ Ft. Seepage Tile Field ☐
- Cess Pool ☐ Sewer (non Cast Iron) ☐
- Privy ☐ Sewer (Cast Iron) ☐
- Septic Tank ☐ Barnyard ☐
- Leaching Pit ☐ Manure Pile ☐

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed 4-20-73

5. Permanent Pump Installed? Yes ☒ No ☐
Manufacturer Barnes Type Subm
Capacity 20 gpm. Depth of setting 84 ft.

6. Well Top Sealed? Yes ☒ No ☐

7. Pitless Adaptor Installed? Yes ☒ No ☐

8. Well Disinfected? Yes ☒ No ☐

9. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

Owner instructed.

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Robert Ortiz Well No. 10229

Address Chicago Heights, Ill.

Driller PAUL J. PAUL License No. 10229

11. Permit No. 22797 Date 4-24-73

12. Water from limestone 13. County Cook

at depth 63 to 175 ft. Sec. 18 Twp. 35N

14. Screen: Diam. ☐ in. Rge. 14E

Length: ☐ ft. Slot ☐ Elev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>Black 1516</u>	<u>0</u>	<u>80</u>

SHOW
LOCATION IN
SECTION PLAT
NW SW SE

16. Size Hole below casing: 5 in.

17. Static level 63 ft. below casing top which is 1 ft.
above ground level. Pumping level 84 ft. when pumping at 20
gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Overburden</u>	<u>0</u>	<u>80</u>
<u>Rock formation</u>	<u>80</u>	<u>175</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul K. Kuehn DATE 7-13-73